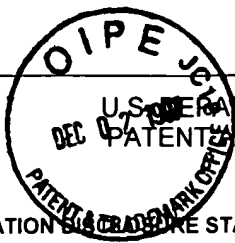


Form
PTO-1449
(Rev. 7-80)



U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

INFORMATION STATEMENT
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ATTY. DOCKET
NO.
TB-101

SERIAL NO.
08/816/079

APPLICANT(S):

Grooms, Jamie M; Wironen, John F.

FILING DATE

March 13, 1997

GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>JS</i>	AA	5,422,340	6/6/95	Ammann, Arthur J. et al.			
	AB	5,503,558	4/2/96	Clokier, M.L.			
	AC	5,292,349	3/8/94	Foresti, Giancarlo			
	AD	4,440,750	4/3/84	Glowacki, Julianne, et al.			
	AE	4,394,370	9/19/83	Jefferies, Steven R.			
	AF	4,472,840	9/25/84	Jefferies, Steven R.			
	AG	4,678,470	7/7/87	Nashef, Awa S. et al.			
	AH	3,034,852	4/1/60	Nishihara, Tomio			
	AI	5,484,601	1/16/96	O'Leary, Robert K. et al.			
	AJ	5,073,373	12/17/91	O'Leary, Robert K. et al.			
	AK	5,405,390	4/11/95	O'Leary, Robert K. et al.			
	AL	5,236,456	8/17/93	O'Leary, Robert K. et al.			
	AM	4,587,268	5/6/86	Pfirman, Rolf W.			
	AN	5,510,396	4/23/96	Prewett, Annamarie B. et al.			
	AO	5,314,476	5/24/94	Prewett, Annamarie B. et al.			
	AP	5,356,629	10/18/94	Sander, Thomas W. et al.			
	AQ	4,931,546	6/5/90	Tardy Michel et al.			
	AR	4,294,753	10/13/81	Urist, Marshall R.			
	AS	5,531,791	7/2/96	Wolfenberger, Jr., Lloyd			

FOREIGN PATENT DOCUMENTS

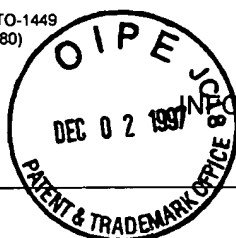
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<i>JS</i>	AA	W0 89/04646	1 June 1989	Jefferies, Steven R.				
	AB							
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	AH							
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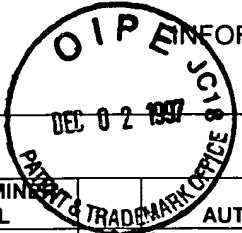

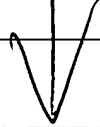
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*EXAMINER INITIAL		AUTHOR(S)	TITLE	DATE	PUBLICATION INFORMATION
AA		Bard	Contigen(TM) Bard(R) Collagen Implant Physicians' Circular	9/89	Contigen(TM) Bard(R) Collagen Implant Physicians' Circular
AB		Benedict, J.J.	The role of carrier matrices on bone induction in vivo	1996	Benedict, J.J, ed.; Society for Biomaterials: Denver, CO
AC		Bentz, Hanne; Thompson, Andrea Y; & Armstrong Rosa et al.	Transforming growth factor-beta2 enhances the osteo-inductive activity of a bovine bone-derived fraction containing bone morphogenetic protein-2 and 3	1991	Matrix 11:269-275
AD		Bergman, Stewart A. & Litkowski, Leonard J.	Bone in-fill of non-healing Calvarial defects using particulate Bioglass(R) and autogenous bone.	Unknown	Bioceramics 8:17-21
AE		Black, R. John; Zardiackas, Lyle D.; & Teasdall, Robert et al.	The mechanical integrity of healed diaphyseal bone defects grafted with calcium hydroxyapatite/ calcium triphosphate ceramic in a new animal model	1990	Clinical Materials 6:251-264
AF		Bloebaum, Roy D.	Human bone ingrowth and materials	1996	Bloebaum, R.D., ed.; Society for Biomaterials: Denver, CO -- J Arthroplasty 8(2):203-211, 1995; J Biol Mat Res 28:537-544, 1994.
AG		Blumenthal, Neil & Steinberg, June	The use of collagen membrane barriers in conjunction with combined demineralized bone-collagen gel implants in human infrabony defects	6/90	J Periodontol 61:319-327
AH		Collagen Corporation	Introducing Zyplast(R) Implant: A stable solution to deeper problems	1986	Zyplast(R) product information
AI		Collagen Corporation	Zyderm(TM) Collagen Implant Physician Package Insert	5/81	Zyderm(TM) Collagen Implant Physician Package Insert
AJ		Cornell, Charles N.	Initial clinical experience with use of Collagraft(TM) as a bone graft substitute	1992	Techniques in Orthopaedics 7(2):55-63
AK		Editor(s)	Second-hand bones?	12/12/92	Lancet 340:1443
AL		Einhorn, T.A.	Enhancement of bone repair using biomaterials	1996	Einhorn, T.A., ed.; Society for Biomaterials: Denver, CO
AM		Frenkel, S.R.; Moskovich, R. & Spivak, J. et al.	Demineralized bone matrix: Enhancement of spinal fusion	1993	Spine 18(12):1634-1639

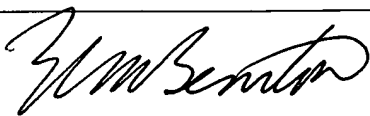
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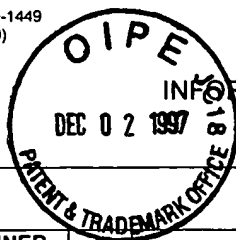
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				FILING DATE March 13, 1997	GROUP
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, etc.)					
*EXAMINER INITIAL	AUTHOR(S)	TITLE	DATE	PUBLICATION INFORMATION	
 	AA	Glowacki, Julie; Kaban, Leonard B.; & Murray, Joseph E. et al.	Application of the biological principle of induced osteogenesis for craniofacial defects	5/2/81	Lancet , pp. 959-963
	AB	Hardin, Charles K.	Banked bone	1994	Otolaringologic Clin. N. America 27(5):911-925
	AC	Kligman, Albert M. & Armstrong, Rosa C.	Histologic response to intradermal Zyderm and Zyplast (glutaraldehyde cross-linked) collagen in humans	4/96	J Dermatol Surg Oncol 12(4):351-357
	AD	Kocialkowski, A; Wallace W. Angus; & Prince H.G.	Clinical experience with a new artificial bone graft: Preliminary results of a prospective study	1990	Injury 21:142-144
	AE	Lasa, C.; Hollinger, J; & Droham W. et al.	Delivery of demineralized bone powder by fibrin sealant	11/95	Plastic and Reconstructive Surg. 96(6):1409-1417
	AF	Low, Samuel B; King, Caleb & Krieger, Jared	An evaluation of Perioglas(R) for the treatment of infrabony osseous defects	2/95	Abstract submitted to International J of Periodontic & Restorative Dentistry
	AG	Mehlisch, Donald R.; Leider, Alan S & Roberts, W. Eugene	Histologic evaluation of the bone/graft interface after mandibular augmentation with hydroxylapatite/purified fibrillar collagen composite implants	1990	Oral Surg Oral Med Oral Pathol 70:685-692
	AH	Muschler, George F; Hyodo, Akira; & Manning, Tim et al.	Evaluation of human bone morphogenetic protein 2 in a canine spinal fusion model	11/94	Clin. Orthopaedics 308:229-240
	AI	Nathan, Ranga M.; Bentz, Hanne; Armstrong, Rosa M. et al.	Osteogenesis in rats with an inductive bovine composite	1988	J. Orthop Res 6(3):324-334
	AJ	Oonishi, H.; Kushitani S., Iwaki, H. et al.	Comparative bone formation in several kinds of bioceramic granules	Unknown	Bioceramics 8:137-144
	AK	Osteotech, Inc.	"The next generation in bone grafting technology"	1995	graston(r) Demineralized Bone Matrix (DBM) product information

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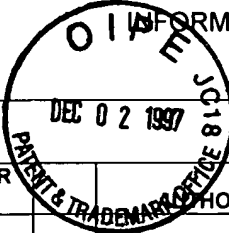
(Including Author, Title, Date, Pertinent Pages, etc.)

*EXAMINER INITIAL		AUTHOR(S)	TITLE	DATE	PUBLICATION INFORMATION
AA		Roberts, W. Eugene	Bone tissue interface	1988	J. Dental Education 52(12):804-809
AB		Rutherford, R. Bruce; Sampath, T. Kuber & Rueger, David C. et al.	Use of bovine osteogenic protein to promote rapid osseointegration of endosseous dental implants	1992	Int. J. Oral Maxillofac Implants 7:297-301
AC		Scarborough, N.	Bone repair using allografts	1996	Scarborough N., ed.; Society for Biomaterials
AD		Senn, N.	On the healing of aseptic bone cavities by implantation of antiseptic decalcified bone	1889	American J. Med. Sci. 98(3):219-243
AE		Sperling, L.H.	Introduction to Physical Polymer Science	1992	John Wiley and Sons, Inc., 2nd ed.: New York
AF		St. John, Kenneth R.; Zardiackas, Lyle D.; Black, R. John et al.	Response of canine bone to a synthetic bone graft material	1992	Clinical Materials, pp. 49-55
AG		Stegman, Samuel J.; Chu, Shirley & Bensch, Klaus et al.	A light and electron microscopic evaluation of Zyderm Collagen and Zyplast implants in aging human facial skin	12/87	Arch Dermatol 123:1644-1649
AH		Strates, Basil S. & Tiedman, Jeffrey J.	Contribution of osteoinductive and osteoconductive properties of demineralized bone matrix to skeletal repair	1993	European J. Experimental Musculoskeletal Res 2:61-67
AI		Urist, Marshall R.	Bone morphogenetic protein	1992	Urist, M.R., ed.; W.B. Saunders Co., Philadelphia, Chapter 7, pp. 70-83
AJ		Urist, M.R.; Chang, J.J. & Lietze, A. et al.	Preparation and bioassay of bone morphogenetic protein and polypeptide fragments	1987	Methods in Enzymology 146:294-312
AK		Urist, M.R.; Huo, Y.K. & Brownell, A.G. et al.	Purification of bovine bone morphogenetic protein by hydroxyapatite chromatography	1984	Proc. Nat Acad Sci, USA 81:371-375
AL		Vrouwenvelder, W.C.A.; Groot, C.G.; & de Groot, K.	Histological and biochemical evaluation of osteoblasts cultured on bioactive glass, hydroxylapatite, titanium alloy, and stainless steel	1993	J. Biomedical Materials Res. 27:465-475
AM		Walker, R. Dixon; Wilson, June & Clark, A.E.	Injectable bioglass as a potential substitute for injectable polytetrafluoroethylene	8/92	J. Urology 148:645-647
AM		Wheeler, D.L.; Senft, D.C.; & Scott, M.D. et al.	Histological analysis of Bioglass(R)-filled radius defects	Unknown	Bioceramics 8:69-73

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*EXAMINER INITIAL	AUTHOR(S)	TITLE	DATE	PUBLICATION INFORMATION
AA	Wilson, J. & Low, S. B.	Bioactive ceramics for periodontal treatment: comparative studies in the Patus monkey	1992	J. Applied Biomaterials 3:123-129
AB	Wilson, J., Pigott, G.H. & Schoen, F.J. et al.	Toxicology and biocompatibility of bioglasses	1981	J. Biomedical Materials Res 15:805-817
AC	Wilson, J.; Yu, L.T.; & Beale, B.S.	Bone augmentation using Bioglass particulates in dogs: Pilot study	Unknown	Bioceramics 5:139-146
AD	Wilson, June; Clark, A.E.; Douek, E. et al.	Clinical applications of Bioglass(R) implants	7/94	Paper presented at the 7th International Symposium on Ceramics in Medicine, July 28-30, 1994, Turku, Finland
AE	Wozney, J.M.; Rosen, V; Byrne, M. et al.	Growth factors influencing bone development	1990	J. Cell Sci. Suppl. 13:149-156
AF	Wozney, John M.	Bone morphogenetic proteins	1989	Progress in Growth Factor Research 1:267-280
AG	Yazdi, M.; Bernick, S.; Paule, W. et al.	Postmortem degradation of demineralized bone matrix osteoinductive potential	1/91	Clinical Orthopaedics Rel. Res. 262:281-285
AH	Younger, E. M. & Chapman, M. W.	Morbidity at bone graft donor sites	1989	J. Orthopaedic Trauma 3(3):192-195
AI	Zimmer, Inc.	"Fracture Management": Collagraft(R) Bone Graft Matrix (Nonosteoinductive bone void-filler): The new standard for bone grafting	1993	Collagraft(R) product information
AJ	Zimmer, Inc.	Highlights of safety and effectiveness studies for Collagraft(R) Bone Graft Matrix (Nonosteoinductive Bone Void Filler)	1992	Collagraft(R) product information
AK	Zimmer, Inc.	"Bone Grafting"	1993	Teaching materials on bone grafting for use by Zimmer, Inc.'s Collagraft(R) sales representatives
AL	Zimmer, Inc.	Collagraft(R) Strip Bone Graft Matrix	1994	Collagraft(R) Strip product information
AM	Zimmer, Inc.	Collagraft(R) Bone Graft Matrix (Nonosteoinductive Bone Void Filler)	5/93	Collagraft(R) Bone Graft Matrix (Nonosteoinductive Bone Void Filler) product information

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